

# PATENT ABSTRACTS OF JAPAN

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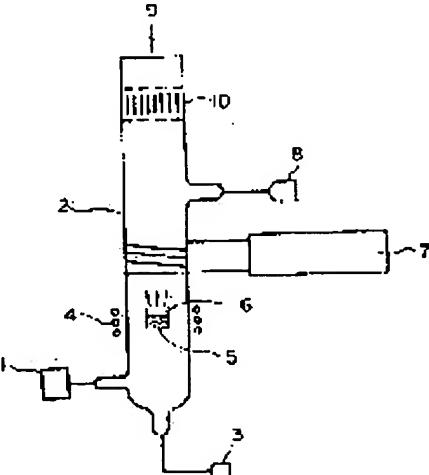
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## (54) MANUFACTURE OF SURFACE COATED SUPER FINE PARTICLES

### (57)Abstract:

**PURPOSE:** To form surface protective coating as it is at the time of generation, to prevent change in the quality and to control particle diameter by introducing organic monomer into metal kind super fine particles just after generating vapor phase, polymerizing and forming the polymerized film on surface of the above particles.

**CONSTITUTION:** For example, the metal kind 6 incorporated into a crucible 5 in a vacuum reaction vessel 2 is vaporized and electric field is impressed from high frequency electric source 7 to ionize carrier gas. Then, this ion and the above metal kind vapor are brought into collision each other and integrated to form the super fine particles. Successively, the organic monomer 8 is polymerized on the surfaces of particles with plasma and this is collected with a collecting system 10.



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